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(54) Title: NOVEL SEMISYNTHETIC MACROLIDE ANTIBIOTICS OF THE AZALIDE SERIES

(57) Abstract: The invention relates to N"-substituted 9a-N-(N'-carbamoyl- γ -aminopropyl), 9a--N-(N'-thiocarbamoyl- γ -aminopropyl), 9a-N-[N'-(β -cyanoethyl)-N'-carbamoyl- γ -aminopropyl] and 9a-N-[N'-(β -cyanoethyl)-N'-thiocarbamoyl- γ -aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminyl-9-deoxo-9-dihydro-9a-aza-9a-homoerithronolide A, novel semisynthetic macrolide antibiotics of the azalide series, of the general formula 1, wherein R represents H or cladinosyl moiety, R¹ represents H or (β -cyanoethyl moiety, R² represents isopropyl, 1-naphthyl, 2-naphthyl, benzyl, 2-(trifluoromethyl)phenyl, 3-phenylpropyl, β -phenylethyl, ethoxycarbonylmethyl, 1-(1-naphthyl)ethyl, 3,4,5-trimethoxyphenyl and 2,4-dichlorophenyl group, and X represents O and S, and their acceptable addition salts thereof with inorganic or organic acids, to the process for preparation of their pharmaceutical compositions as well as the use their compositions in the treatment of bacterial infections.

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07H17/00 A61K31/70 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07H A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 492 688 A (BRIGHT GENE M) 8 January 1985 (1985-01-08) claim 9 -----	1-56
A	WO 97/35590 A (PLATT CHRIS E) 2 October 1997 (1997-10-02) claim 4 -----	1-56
A	EP 0 132 944 A (PFIZER) 13 February 1985 (1985-02-13) claim 1 -----	1-56

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Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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